

|   |    |  |      |                 |       |                  |                            |
|---|----|--|------|-----------------|-------|------------------|----------------------------|
| U.S. Department of Commerce, Patent and Trademark Office  |    |  |      | Atty Docket No. |       | Application No.  |                            |
|   |    |  |      | M-5628 US       |       | 09/560,109       |                            |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT   |    |  |      | Applicant(s)    |       | Confirmation No. |                            |
| Substitute PTO Form 1449  |    |  |      | Sallaway et al. |       | 3400             |                            |
|   |    |  |      | Filing Date     |       | Group            |                            |
|   |    |  |      | 28 April 2000   |       | 2637             |                            |
| U.S. Patent Documents   |    |  |      |                 |       |                  |                            |
| *Examiner Initial   |    | Document Number  | Date | Name            | Class | Subclass         | Filing Date If Appropriate |
|   | AA |  |      |                 |       |                  |                            |
|   | AB |  |      |                 |       |                  |                            |
|   | AC |  |      |                 |       |                  |                            |
|   | AD |  |      |                 |       |                  |                            |
|   | AE |  |      |                 |       |                  |                            |
|   | AF |  |      |                 |       |                  |                            |
|   | AG |  |      |                 |       |                  |                            |
| Foreign Patent Documents  |    |  |      |                 |       |                  |                            |
|   |    |  |      |                 |       |                  | Translation                |
|   |    | Document   | Date | Country         | Class | Subclass         | Yes No                     |
|   | AH |  |      |                 |       |                  |                            |
|   | AI |  |      |                 |       |                  |                            |
|   | AJ |  |      |                 |       |                  |                            |
|   | AK |  |      |                 |       |                  |                            |
| OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)  |    |  |      |                 |       |                  |                            |
| llt   | AL | Lin et al. <u>Error Control Coding: Fundamentals and Applications</u> (Prentice-Hall), 1983, pp. 315 - 349   |      |                 |       |                  |                            |
| llt   | AM | Hagenauer et al. "A Viterbi Algorithm with Soft-Decision Outputs and its Applications", Procs. GLOBECOM '89, Nov. 1989, pp. 1680 - 1686                      |      |                 |       |                  |                            |
| llt   | AN | Raheli et al., "Per-Survivor Processing: A General Approach to MLSE in Uncertain Environments," <u>IEEE Trans. Comm.</u> , Feb./Mar./Apr 1995, pp. 354 - 364 |      |                 |       |                  |                            |
| llt   | AO | Ungerboeck, "Trellis-Coded Modulation with Redundant Signal Sets, Part I: Introduction", <u>IEEE Communications Mag.</u> , Feb. 1987, pp. 5 - 11             |      |                 |       |                  |                            |
| llt   | AP | Ungerboeck "Trellis-Coded Modulation with Redundant Signal Sets, Part II: State of the Art", <u>IEEE Communications Mag.</u> , Feb. 1987, pp. 12 - 21        |      |                 |       |                  |                            |
| llt   | AQ | Viterbi, "Error Bounds for Convolutional Codes and an Asymptotically Optimum Decoding Algorithm", <u>IEEE Trans. Info. Theory</u> , Apr. 1967, pp. 260 - 269 |      |                 |       |                  |                            |
|   | AR |  |      |                 |       |                  |                            |
| Examiner <b>KHAN TRAN</b>   |    | Date Considered <b>11/21/05</b>  |      |                 |       |                  |                            |
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant. |    |  |      |                 |       |                  |                            |